

STEREO MOC Status Report  
Time Period: 2014:048 - 2014:054

STEREO Ahead (STA) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- On day 049, during the DSS-55 support, turbo decoder lock was lost briefly at 1417z. This anomaly resulted in the loss of one frame of SSR data.
- On day 049, during the DSS-34 support, turbo decoder lock was lost intermittently beginning at 050-0229z through 0245z due to heavy rain. This anomaly resulted in the loss of 21 minutes of SSR data. See DR# C110016 more information.
- On day 050, during the DSS-14 support, turbo decoder lock was lost briefly at 1857z. This anomaly resulted in the loss of one frame of SSR data.
- On day 053, during the DSS-55 support, turbo decoder lock was lost briefly at 0835z. This anomaly resulted in the loss of one frame of SSR data.
- On day 053, during the DSS-26 support, turbo decoder lock was lost briefly at 1851z. This anomaly resulted in the loss of one frame of SSR data.

2. The following spacecraft/instrument events occurred during this week:

- On day 050, the 65<sup>th</sup> momentum dump was executed successfully at 1830Z, which imparted a delta V of 0.0963 m/sec.
- The average daily SSR playback volume for Ahead was 4.4 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- On day 049, during the DSS-24 support, turbo decoder lock was lost briefly at 2100z. This anomaly resulted in the loss of one frame of SSR data.
- On day 051, during the DSS-24 support, turbo decoder lock was lost briefly at 052-0025z. This anomaly resulted in the loss of one frame of SSR data.
- On day 051, during the DSS-24 support, turbo decoder lock was lost intermittently beginning at 1322z through 1429z. This anomaly resulted in the loss of five frames of SSR data.
- On day 053, during the DSS-24 support, turbo decoder lock was lost briefly at 2107z. This anomaly resulted in the loss of one frame of SSR data.

2. The following spacecraft/instrument events occurred during this week:

- On day 051, the IMPACT IDPU stopped receiving data from the MAG instrument at about 0300z. As commands to reinitialize the MAG interface were unsuccessful, the IDPU/MAG and SWEA power services will be powered cycled to clear the anomaly and to minimize science data interruption to the SEP/SEPT and PLASTIC instruments.
- The full Reduced Gyro Operations (RGO) fault protection capability for the Behind observatory has been developed. The fault protection rules and load scripts have been successfully tested on the hardware simulator (flatsat) and test data was analyzed by the engineering team. The STEREO CCB, along with the GSFC mission director, reviewed the results and concurred with loading the new fault protection and MOps macro releases to the BEHIND spacecraft. The RGO extends the life of the remaining IMU by keeping it off most of the time and turning it on only when high rate data is required, such as the periodic momentum dumps, instrument roll calibrations, and spacecraft safety.
- The average daily SSR playback volume for Behind was 3.7 Gbits during this week.